

TABLE 2

NEWLY IDENTIFIED POTENTIAL AREAS OF CONCERN

Location Name Address City State Zip	Location Number	Location Description	Location Status	Location Action	Location Status	Location Action	Location Status
NE-1400	N/A	Spill of tear gas powder onto roadway (1987)	5 pounds CS tear gas powder	The area was holed down.	No	Hoing down the area is considered a sufficient remedial action.	
NE-1401	6	Rupture in Coors Company natural gas line	5 million cubic feet of natural gas were released	The line was repaired and returned to service.	No	The natural gas was dissipated to the atmosphere, so no remediation is necessary.	
NE-1402	2	Contaminated transformer oil leaked onto asphalt in 1983	PCB-contaminated fuel	One square foot of contaminated asphalt was removed.	No	Appropriate remedial actions were already conducted.	
NE-1403	6	Gas from portable generator spilled onto parking lot in 1991	1 quart gasoline	Spill contained with Oil-Del and removed, packaged material transferred to Building 531 Storage Area.	No	Appropriate remedial actions were already conducted.	
SE-1600	1	Former pond received steam condensate from Building 881 in 1955	5,400 gallons of steam condensate	None	No	The subsurface soil in the vicinity of this former pond has been sampled in the soil sampling program for OUI. Surface soils have been completely disturbed by construction of the French Drive.	
SE-1601.1 & SE-1601.2	1	Pond 8 south (SE-1601.1) and Pond 8 South (SE-1601.2) received overflow/bleeddown from Building 881 Cooling Towers	Chromium-based biooxide	None	No	The subsurface soil in the vicinity of these former ponds has been sampled in soil sampling program for OUI. Surface soils adjacent to 1601.2 were also sampled in the OUI investigation.	
SW-1700	5	Fuel spill into Woman Creek drainage in 1975	Either diesel or gasoline	There is no evidence that remedial actions were conducted.	No	Because 18 years have passed since the fuel was spilled into the creek, the fuel has degraded and is no longer a concern.	
000-500	Site wide	Releases from the sanitary sewer system	Phenolium contaminated laundry waste, laboratory waste, photographic waste (included lithium, uranium, plutonium) tritium, chromic acid	Remedial actions were conducted in the areas of four known releases (PAC 800-145, 900-141, 700-144, and 100-604). The actions consisted of repairing the broken lines and removing soil at PAC 700-144.	Yes	The sanitary sewer system has probably leaked at locations in addition to the four already identified. To determine if there are other areas of contamination, it is suggested that the dredge from several sewer junctions be sampled for phenolium, ammonium, and tritium. Results for this sampling could guide the selection of additional soil sampling along the sewer pipelines.	
000-501	Site wide	Spraying waste oil on unpaved roads to suppress dust	Waste oil/diesel fuel number 2	None	No	The last instance of roadway spraying with waste oil is cited as having been in Sept. 1983. It is improbable that contaminants from the waste oil and/or brines would still be present on the dirt roads or nearby sediments after nine years of exposure.	
100-600	13	Spill onto concrete and soil, 1990	2.75 pounds of mercury	The mercury was vacuumed from the valve floor and contaminated soil was excavated.	No	Appropriate remedial actions were already conducted.	

Case Number	Site Number	Release Date	Release Description	Release Amount	Release Type	Release Status	Release Location	Release Date	Release Time	Release Duration	Release Frequency	Release Volume	Release Concentration	Release Temperature	Release Pressure	Release Humidity	Release Wind Speed	Release Wind Direction	Release Cloud Cover	Release Visibility	Release Weather	Release Notes
100-601	13	Spill onto ground, 1989	8 ounces 1,2-dichloroethyl phosphoric acid		None	No	The spill was contained in a small area and the exact nature of the spill does not require remediation.															
100-602	13	Break in Building 123 process waste line in 1989	25 gallons urine, 12.5 gallons white acid, 20 gallons hydrochloric acid, 1.5 pounds ammonium thioarsenate, 1.0 pound ammonium borate, 2.5 gallons ammonium hydroxide		The spill was near two HSSs scheduled for remediation investigation, so no action was taken.	Yes (Could be easily incorporated in OU13 RI process)	The soil was contaminated as a result of the break in the process waste line. This area is not being studied as part of OU13. (OU13 deals exclusively with abandoned process waste lines.) Therefore all breaks or releases from currently operating process waste lines will require a separate remedial investigation.															
100-603	13	Overflow of process waste from Building 123 in 1989	Hydrochloric acid and nitric acid, uric acid, ammonium thioarsenate, ammonium borate, and ammonium hydroxide		The spill was contained and soil samples were collected to confirm that contamination was restricted to the area.	Yes (Could be easily incorporated in OU13 RI process)	The soil was contaminated as a result of the break in the process waste line. This area is not being studied as part of OU13. (OU13 deals exclusively with abandoned process waste lines.) Therefore all breaks or releases from currently operating process waste lines will require a separate remedial investigation.															
100-604	13	Leaking sanitary sewer pipes, 1990	Unknown		The pipes were repaired.	No	Sanitary sewer lines from urinals are not likely to contain any hazardous constituents, therefore investigation is not warranted.															
100-605	13	Spill onto asphalt or soil, 1989	2 gallons hydraulic oil		No documentation was found which detailed a response.	No	Because of the small size of this spill and the type of material involved, hydraulic oil does not contain PCBs, so remedial actions are not warranted.															
100-606	13	Spill onto asphalt, 1989	8 ounces of TCE		None	No	TCE is very volatile, so an 8-ounce spill in 1989 would no longer be of concern.															
100-607	13	Transformer leak onto gravel basement floor, 1984-1986	PCB bearing cooling oil		None	Yes	A PCB survey was conducted in October 1991 (BG&G, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.															
100-608	13	Transformer leak onto ground, 1989	0.25 gallons of PCB containing oil		None	Yes	A PCB survey was conducted in October 1991 (BG&G, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.															
100-609	13	Inspector releases to the air, 1980-1985	Dioxins and furans		None	Yes	Dioxins and furans are toxic and their presence should be examined. If the indicator is still in place, holding error samples should be collected. In addition, soil samples should be collected from downwind of the incinerator (southern edge of the 600 Area) and analyzed for dioxins.															
100-610	13	Asbestos insulation disturbed in 1987	12 linear feet of asbestos		Related asbestos was wetted down and pipes were replaced.	No	The disturbed asbestos was released to the atmosphere, so no remedial actions are necessary.															

PAF Number	Location	Contaminant	Remedial Action	Completion Date	Remarks
100-611	13	Liquid spill into containment area and 3 pits under Building 123 in 1989	Several hundred gallons of acidic scrubbing solutions	Yes	Barren and pits into which the spilled solution overflowed may not have completely contained the release.
100-612	13	Nickel-cadmium battery fall onto pavement in 1991	3 quarts potassium hydroxide	No	Appropriate remedial actions were already taken.
300-700	14	Unknown, scrap building material was buried in trench from 1955-1981	Buried material consisted of roofing material, styrofoam, asphalt, and plastic sheeting	No	There is no evidence that burying scrap building material had any impact on the environment.
300-701	13	Liquid spill onto loading dock in 1989	20 gallons diluted sulfonic acid	No	Appropriate remedial actions were already taken.
300-702	13	Spills and leaks of pesticides and herbicides stored in Building 367 between 1952 and 1988. Contaminants released onto soil and possibly nearby drainage ditches.	Pesticides and herbicides in unknown quantities	Yes	Soil around Building 367 and along drainage pathways are probably contaminated with residual pesticides and herbicides. Further investigations could include select soil and ditch sampling with analysis for organophosphorus and chlorinated herbicides.
300-703	13	Road oil vapors were ignited in 1970	Oil vapors and burned road oil residual	No	Residuals and releases from fire 22 years ago would not be present.
300-704	10 and 8	Fire on roof of Building 381 in 1982	Smoke and fluorine vapors	No	Fluorine vapors have already been dispersed to the atmosphere.
300-705	10 and 8	Spill into containment berm from storage tank north of Building 374 in 1989	Potassium hydroxide	No	Appropriate remedial actions were already conducted.
300-706	10 and 8	Spill from Tank 805 north of Building 374 in 1989. Liquid spilled onto plywood deck, dripped onto concrete slab, migrated toward sump embedded in slab	2 gallons of process waste stream included a variety of chemicals	No	Appropriate remedial actions were already conducted.
300-707	13 and 10	Liquid spill from tank onto asphalt in 1985	3 gallons of water and sanitizer (water and formaldehyde)	No	This 3 gallons of sanitizer have already evaporated.
300-708	10	Transformer leaking onto grid of unknown composition until 1987	PCB containing oil	Yes	A PCB survey was conducted in October 1991 (BOMAG, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.
300-709	13	Transformer leak	772 ppm PCB oil	Yes	A PCB survey was conducted in October 1991 (BOMAG, 1991). This survey should evaluate the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.
300-710	13	Gasoline spill from supply truck in 1991	2 gallons unleaded gasoline	No	Appropriate remedial actions were already conducted.

400-800	13	Small leak from a transformer (1987)	Dilectio Field; smect samples contained 10,964 ppm PCBs	The transformer was removed.	Yes	A PCB survey was conducted in October 1991 (GRB&O, 1991). This survey verified the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.
400-801	12	Transformer leak on roof of Building 447 (1987)	PCBs contaminated transformer oil; smect samples contained 120-94 mg of PCBs	The roofing material was removed.	Yes	Need to confirm that all material contaminated with PCBs has been removed.
400-802	14	Drums leaking on a concrete slab from 1955-1969. Equipment stored on slab was also contaminated by the leaking drums	Depleted uranium chips immersed in oil stored in 125 30-gallon drums	The drums were removed in 1995 and the concrete was decontaminated with perchloroethane. The equipment was moved to another area. After cleanup, parts of the slab registered 108 disintegrations/minute (d/m).	Yes	Soil around the concrete storage area and possibly under the area may be contaminated with uranium. Collection of soil samples around this storage area is suggested.
400-803	12	Miscellaneous materials were dumped into storm drain near Building 446 in 1972. Material found along open ditch south of Concordwood Ave. northward to Seventh Ave.	Sliver paint, oil, and aluminum paint	There is no evidence to suggest that remedial actions were conducted.	Yes	Drumming silver and aluminum paint would release heavy metals to the soil. It is suggested that soil samples be collected from the area around the storm drain and along the ditch and analyzed for lead, cadmium, chromium, and arsenic.
400-804	14	Rear impacts of unknown composition fell from a truck onto asphalt in 1957.	Radioactivity	The impact removed, the area was dug, resurfaced, and hot spots were covered with asphalt.	Yes	Field sampling activities (soil survey and asphalt sampling) in OUI2 work plan will sufficiently investigate this location.
400-805	13	Leak from a filler pipe near tank #9 in 1990	Fuel	The filler pipe was repaired.	No	Appropriate remedial actions were already conducted.
400-806	10(?)	Leak from production tank north of Building 440 onto pavement in 1989	5 gallons polymethylene polypropylene	The liquid was cleaned up using Oil-Dri and residue was placed in hazardous material waste drums.	No	Appropriate remedial actions were already conducted.
400-807	12	Sandblasting of railroad cars released contaminants to the air. Sandblasting may still be in operation.	Unknown	None	Yes	Field sampling activities (soil survey, surficial soils and sediment sampling) in OUI2 work plan will sufficiently investigate this location.
400-808	12	Oil leaked from vacuum pump	1 quart vacuum pump oil	Contaminated soils were removed	No	Appropriate remedial actions were already taken.
400-809	12	Oil leak was found in motorcycle parking lot in 1991	1 quart motor oil	Spill cleaned up with absorbent material and packaged for disposal.	No	Appropriate remedial actions were already taken.
400-810	12	Pipe in the intake duct of the beryllium air plenum for Building 444 in 1978	14.5 grams beryllium	None	Yes	Field sampling activities (surficial soils and sediment sampling) in OUI2 work plan will sufficiently investigate this location.
500-900	8	Transformer oil	50-300 mg/L PCBs	None	Yes	A PCB survey was conducted in October 1991 (GRB&O, 1991). This survey verified the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.

Location Name of Building Number of Building	Location Name of Building Number of Building	Location Name of Building Number of Building	Location Name of Building Number of Building	Location Name of Building Number of Building	Location Name of Building Number of Building	Location Name of Building Number of Building	Location Name of Building Number of Building
600-1001 (cont.)	14	May 1969 - Corroded drums leaked acidic waste material from Building 881 onto loading facility June 1969 - Drum leaked waste from Building 881 onto slab	No contamination detected	None	Equipment was decontaminated or replaced.	Above	Above
600-1002	14	Aug. 1961 - Drums leaked waste from Buildings 444 and 776 in Building 663 Mar. 1968 - Three drums leaked waste and contaminated trailers, forklifts, work area, and personnel clothing and shoes. Sept. 1968 - Drum contaminated a fork truck, paint truck, and sewage tank in Building 663.	Waste from Buildings 444 and 776	None			A PC survey was conducted in October 1991 (BQ& 1991). This survey evaluated the condition of all transformers at RFP. Soil contaminated with PCBs from transformer leaks has been remediated, since PCBs do not degrade and are not transported readily.
600-1003	14	Transformer leak	PCBs	None		Yes	A PC survey was conducted in October 1991 (BQ& 1991). This survey evaluated the condition of all transformers at RFP. Soil contaminated with PCBs from transformer leaks has been remediated, since PCBs do not degrade and are not transported readily.
700-1100	14	1964 and 1969: Plutonium contamination from incidents potentially transported along trench drain.	Possible plutonium	None		Yes	The ground for radioactive contamination in the area was further investigated along the trench drain.
700-1101	14	Laundry wastewater tank overflowed west of Building 778 into tank pit.	Laundry wastewater (probably low-level)	None		Yes	Laundry waste water may contain low level radioactive contamination. The extent of this radioactively waste is further investigation.
700-1102	8	Transformer oil	14,900 mg/L PCBs	None	The transformer was removed for re- filling and relocation several feet to the north. The pad was partially removed to 4 inches deep and appears to have had fill recently placed around it.	Yes	A PC survey was conducted in October 1991 (BQ& 1991). This survey evaluated the condition of all transformers at RFP. Soil contaminated with PCBs from transformer leaks has been remediated, since PCBs do not degrade and are not transported readily.
700-1103	8	Transformer oil	135.7, 200 ug PCBs	PCBs were to be cleaned up with Building 707 under the Toxic Substances Control Act.		Yes	A PC survey was conducted in October 1991 (BQ& 1991). This survey evaluated the condition of all transformers at RFP. Soil contaminated with PCBs from transformer leaks has been remediated, since PCBs do not degrade and are not transported readily.

Case Number	Year of Incident	Location	Release	Contaminant	Response	Investigation	Remediation
700-1104	8	Transformer oil	1,033-3,350 ug PCBs	Transformers were moved and refilled. Rock and gravel fill was placed around the transformer pad west of Building 708.	Yes	A PCB survey was conducted in October 1991 (BG&G, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.	
700-1105	8	Transformer oil	PCBs	Transformers were refilled and moved several feet east and north.	Yes	A PCB survey was conducted in October 1991 (BG&G, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.	
700-1106	8	Process wastewater from valve vault 12 leak spilled onto street from tank truck at entrance to portal 1	10 gallons radioactive process wastewater (no radioactivity found on street at the time)	None	Yes	The magnitude of the pad contamination from samples of the process wastewater warrants further investigation.	
700-1107	8	June 10, 1986 - Open oil drum filled with water from compressor house roof overflowed and soil flowed onto road past Building 776	1 to 2 gallons oil	"Oil-Dri" was poured over the area to absorb the spilled oil. "Oil-Dri" was to be swept up, placed in a drum, and disposed in Present Landfill (PAC NW-114).	No	Appropriate remedial actions were already conducted.	
700-1108	8	June 12, 1986 - Compressor waste oil spilled from overfilled drum outside door 15F north of Building 776	2 to 3 gallons oil	Two bags of oil absorbent were used to absorb the spill.	Yes	Levels of radioactivity warrant conducting further scans of radioactive contamination.	
700-1109	8	Process waste storage tanks leaked chemical and radioactive contamination to the soil around Building 774, and minor leakage seeped to building footing drain tiles. July 21, 1980 - Process waste line leaked June 22, 1987 - Canister overflowed in bermed area beneath 8,000-gallon above-ground condensate tank. Drained into western condensate receiving tank.	Mar. 1971 - 500 disintegrations per minute per liter (d/m/L) gross alpha Apr. 1971 - 400 d/m/L plutonium and 800 ppm nitrate 1,000 gallons - 2,500 pCi/L total alpha; 400 pCi/L gross beta; 10,000 mg/L NO ₃ pH 12.	1973 - Wet-well with a submersible pump installed at Building 771/774 footing drain outside pond. 1981 - Interceptor trench pump house installed. The initial response - stop flow through waste line to stop leak. HMDLBR survey to determine extent of contamination. Broken waste line excavated and loose sludge identified. Contents of western condensate tank sampled, and solution pumped to auxiliary sewer or Building 774 for processing.	No	Depleted uranium is not a serious hazard.	
700-1110	8	Place of uranium found on ground between Buildings 778 and 729 Fire in Building 771. Nickel carbonyl cylinders drummed and buried.	Depleted uranium flake 1" diameter by 1/2-inch thick Nickel carbonyl	The uranium was transported to Building 776 then to Building 779 Nuclear Material Control enclosure, stored in 55-gallon drums. Site where U found surveyed (occurs within back-ground). From 55-gallon drums; 1 GI can with two cylinders and 6 loose cylinders of nickel carbonyl removed from burial pit west of Building 771 to pit east of Solar Evaporation Ponds. Explosive charges used to destructively vent the cylinders and ignite any residual gas.	No	Appropriate remedial actions were already conducted.	

PAC 000-500 Number of Units		New Units Number of Units		Contaminants		Remedial Action		Status	
700-1111	8	Transformer leak	PCBs	The transformer unit was refilled in 1987.	Yes	A PCB survey was conducted in October 1991 (BDAQ, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.			
700-1112	8	Transformer leak	807 ppm PCBs	Cleanup scheduled during 1989, but not confirmed.	Yes	The previous remedial action should be confirmed. A PCB survey was conducted in October 1991 (BDAQ, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.			
800-1200	12	South process transfer line leaked Mar. 15, 1989 Mar. 16, 1989 Apr. 13, 1989 June 1989 - Secondary chase pipe leak detected	Partially neutralized HNO ₃ or dilute water contaminated with depleted uranium (pH = 1.2) 5 gallons 7 gallons (>1 lb radionuclides) 15 gallons (>100 lbs corrected)	Discharge valves were closed and locked out; plumbing was changed and hydrostatically tested. The inner line was removed.	Yes	Since both the inner and the outer chase pipe were found to be leaking, further investigation is warranted.			
800-1201	14	1957 - Plutonium fire contamination	Building 881 (NW corner) soil activity = 4.5 x 10 ⁶ dpm/g 20 feet west, total activity = 1.5 x 10 ⁶ dpm/g; with some plutonium; uranium-235 in soil (1978)	April 1981 - Contaminated soil removed in two small areas near Building 881. May not be same area.	Yes	The radioactive contamination in soil in 1978 warrants further investigation in the area around Building 881.			
800-1202	12	Battery fell from truck and battery acid spilled on road	1 qt. 1/2 gallon H ₂ SO ₄	NaHCO ₃ applied to spill and area washed down. Battery disposed in present landfill.	No	Appropriate remedial actions were already conducted.			
800-1203	12	Broken sanitary sewer line between Building 865 and 886	Sanitary sewage waste	None	No	No specific contaminants are associated with this break in the sanitary sewer line, however the site-wide sanitary sewer system (PAC 000-500) is listed as needing further investigation.			
800-1204	12	Building 886 spill Jan. 1978 - vent pipe overflow onto ground 1984 - Tank overflow onto roof and ground 1985 - Tank overflow onto roof through downspouts and onto ground	2 gallons on about 16 sq. ft. 410,000 dpm/L alpha Decontamination water 20 gallons process waste	None	Yes	Levels of radioactivity warrant conducting further scans of radioactive contamination.			
800-1205	12	Uranium and plutonium and condensate contaminated east dock of Building 881	Uranium, plutonium, and condensate	None	Yes	The presence of uranium and plutonium contamination warrants further investigation specifically, the collection of wipe samples of the dock outside Building 881.			

Site Number	Location in Building	Problem	Contaminant	Condition	Location	Remarks
800-1206	12	Trash container fire in Building 883	Contaminated trash	The shift superintendent was responsible for improper cleanup activities, and Health Physics was to follow up on the incident with the proper department.	No	The drum is probably not at this same location.
800-1207	12	Transformer leak	>500 ppm PCBs	The transformer was required to be removed or replaced by fiscal year 1987 or 1988.	Yes	A PCB survey was conducted in October 1991 (BG&G, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.
800-1208	12	Transformer leak	435 gallons 110 ppm PCBs	The transformer was retrofitted in 1987	Yes	A PCB survey was conducted in October 1991 (BG&G, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.
800-1209	12	Transformer leaks	PCBs	The transformers were retrofitted in 1987.	Yes	A PCB survey was conducted in October 1991 (BG&G, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.
800-1210	12	Transformer leaks	Possibly PCBs	The transformers were removed from the old pad, retrofitted, and placed on a new pad.	Yes	A PCB survey was conducted in October 1991 (BG&G, 1991). This survey evaluated the contents of all transformers at RFP. Soil contaminated with PCBs from transformer leaks should be remediated, since PCBs do not degrade and are not transported readily.
800-1211	12	Capsule leak	1 gals oil (no PCBs)	A smear sample was taken from the concrete where the leak occurred. A glass bottle was placed under the leak, absorbent pads were put on the spill, and the area was berried.	No	Appropriate remedial actions were already conducted.
900-1300	8	Sludge from sanitary sewage treatment reverse osmosis plant	Low-level radioactive waste sludge from sanitary treatment plant	Monitoring ground water and the vadose zone are planned.	No	Monitoring is sufficient to evaluate the potential contamination from sewage sludge.
900-1301	8	79 drums containing concrete waste from Building 991	Drummed concrete waste contaminated with enriched and depleted uranium	None	Yes	Further investigation of this area is recommended, because concrete stabilization has not always been successful at RFP. In addition, drums were stored outside, above the headwaters of Walnut Creek. Water could have leached radioactivity from waste drums into Walnut Creek where it may be transported to ponds downstream.
900-1302	10	Gasoline spill sprayed into the air or leaked onto the ground from 55-gallon drum	Approximately 2 gallons gasoline	The Hazardous Materials Team sealed the leak, and a concrete containment berm was to be installed around the contractor's fuel storage facility.	No	Contamination was not severe and has probably degraded.
900-1303	6	Natural gas leak	Natural gas	The pipe was repaired and 400 feet of gas line near Building 991 were slated to be replaced in 1971.	No	The natural gas was dispersed to the atmosphere, so no remediation is necessary.

Case Number	Location	Date of Release	Type of Release	Location	Location	Location	Location
Number	Number	Number	Number	Number	Number	Number	Number
900-1304	8	Chlorine acid spilled in cement pit	Several gallons chlorine acid laboratory waste	Steps were taken to prevent recurrence. Primer was spread around and tiled.	No	Cement pit and beam foundation property in containing the spill; therefore no release to the environment.	
900-1305	8	Prime coating spilled on roof of Building 991 under tanks affected climate inside building.	Approximately 5 gallons primer. Two Transformers containing nitrocellulose as a solvent	PCBs were cleaned up and the transformers replaced by an outside contractor.	No	Contamination was not severe and has probably degraded.	
900-1306	8	Transformer leaks	114 and 60 ppm PCBs in transformers 991-1 and 991-2, respectively	Measures were to be evaluated to prevent malfunctions during future experiment.	Yes	Need to confirm that all contaminated material was removed from this site.	
900-1307	8	Explosive bonding experiment hurled a piece of aluminum 525 feet	Uranium alloy and stainless steel	Some releases have been remediated, but a majority have never been remediated.	Yes	Explosive bonding experiments used uranium. The pit area should be investigated to determine the extent of radioactivity in the soil.	
Under Building Contamination (UBC)	Site wide	Building operations released contaminants into soil or ground water under the building.	Radiomimetic, nitrate solvents, acids, and bases		Yes	Under building soil and ground-water contamination resulting from building operations has not been previously addressed. Virtually every current or former building used for operation, production, or maintenance could have contaminated the environment beneath the building. It is suggested that soil sampling be conducted in hot areas of building basements and that ground water be monitored for all the appropriate constituents of interest. Some of the identified PACs (100-611 and 400-157-2) pertain to contamination under buildings; these PACs may be investigated concurrently with the UBCs.	
PEC #3	13	Leaking drums outside Building 551.	Aqueous ammonia and carbon tetrachloride.	No cleanup mentioned.	Yes	Field sampling activities for HRS 138 in the OU 15 work plan will sufficiently investigate this location with minor revisions.	
PEC #41	8	Transformer leaks	PCBs.	Transformer 771-1 was scheduled for cleanup to occur on August 14, 1989.	Yes	PCBs do not degrade and are not readily transported.	
PEC #44	8	Liquid contaminated to 6,700 d/m/L	Unknown distillate.	Soil samples taken for analysis. No cleanup mentioned.	Yes	Contaminated liquid was pumped to the ground south of building 374; no cleanup known.	

REFERENCES

BGS&G Rocky Flats, 1991, "Assessment of Known, Suspect, and Potential Environmental Releases of Polychlorinated Biphenyls (PCBs)," October 1991
 d/m/L = disintegrations per minute per liter
 pCi/L = pico-curie per liter